

10/716041

FILE 'STNGUIDE' ENTERED AT 14:05:07 ON 29 APR 2004
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr 23, 2004 (20040423/UP).

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.06

0.27

FILE 'HOME' ENTERED AT 14:05:11 ON 29 APR 2004

=> set abbr on perm

SET COMMAND COMPLETED

=> set plurals on perm

SET COMMAND COMPLETED

=> file uspatall caplus japio

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.48

FILE 'USPATFULL' ENTERED AT 14:05:36 ON 29 APR 2004

CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 14:05:36 ON 29 APR 2004

CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'CAPLUS' ENTERED AT 14:05:36 ON 29 APR 2004

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FILE 'JAPIO' ENTERED AT 14:05:36 ON 29 APR 2004

COPYRIGHT (C) 2004 Japanese Patent Office (JPO)- JAPIO

=> s fluid? bed (1w)(reactor or polymeriz?)

L1 17457 FLUID? BED (1W)(REACTOR OR POLYMERIZ?)

=> s transitioning (3a)(catalyst or catalytic or polymerization)

L2 34 TRANSITIONING (3A)(CATALYST OR CATALYTIC OR POLYMERIZATION)

=> s l1 and l2

L3 25 L1 AND L2

=> d l3 1-25 ibib abs

L3 ANSWER 1 OF 25 USPATFULL on STN

ACCESSION NUMBER: 2003:228386 USPATFULL

TITLE: Catalyst composition and methods for its preparation
and use in a polymerization process

INVENTOR(S): Wenzel, Timothy T., Charleston, WV, United States

PATENT ASSIGNEE(S): Univation Technologies, LLC, Houston, TX, United States
(U.S. corporation)

NUMBER

KIND

DATE

PATENT INFORMATION:

US 6610803

B1

20030826

APPLICATION INFO.:

US 2000-711335

20001109 (9)

RELATED APPLN. INFO.:

Division of Ser. No. US 1998-215432, filed on 17 Dec

1998, now patented, Pat. No. US 6180735
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Choi, Ling-Siu
LEGAL REPRESENTATIVE: Sher, Jaimes, Jones, Lisa Kimes, Faulkner, Kevin M.
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT: 1789

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a carbonyl compound. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier. More particularly, the polymerization catalyst comprises a bulky ligand metallocene-type catalyst system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 2 OF 25 USPATFULL on STN
ACCESSION NUMBER: 2003:166751 USPATFULL
TITLE: Polymerisation process
INVENTOR(S): Samson, John Norman Reid, Stirling, UNITED KINGDOM

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003114609	A1	20030619
APPLICATION INFO.:	US 2002-257161	A1	20021009 (10)
	WO 2001-GB1583		20010406

	NUMBER	DATE
PRIORITY INFORMATION:	GB 2000-8770	20000410
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP, 1300 I STREET, NW, WASHINGTON, DC, 20005	
NUMBER OF CLAIMS:	13	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Page(s)	
LINE COUNT:	842	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for **transitioning** between two **catalysts** is disclosed, comprising the steps of a) discontinuing the feed of the first catalyst into the polymerization reactor, and then b) introducing the second catalyst into the reactor, wherein one of the catalysts comprises a late transition metal catalyst and the other is a catalyst which is incompatible therewith. It is preferred that the late transition metal catalyst is a 2,6-diacetyl pyridine iron catalyst.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 3 OF 25 USPATFULL on STN
ACCESSION NUMBER: 2003:109063 USPATFULL
TITLE: Catalyst composition and methods for its preparation and use in a polymerization process
INVENTOR(S): Wenzel, Timothy T., Charleston, WV, United States
PATENT ASSIGNEE(S): Univation Technologies, LLC, Houston, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6551957	B1	20030422

APPLICATION INFO.: US 2000-710829 20001109 (9)
RELATED APPLN. INFO.: Division of Ser. No. US 1998-215432, filed on 17 Dec
1998, now patented, Pat. No. US 6180735
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Wu, David W.
ASSISTANT EXAMINER: Choi, Ling-Siu
LEGAL REPRESENTATIVE: Sher, Jaimes, Faulkner, Kevin M.
NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT: 1746

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a carbonyl compound. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier. More particularly, the polymerization catalyst comprises a bulky ligand metallocene-type catalyst system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 4 OF 25 USPATFULL on STN

ACCESSION NUMBER: 2002:228416 USPATFULL
TITLE: Catalyst composition and methods for its preparation and use in a polymerization process
INVENTOR(S): Agapiou, Agapios Kyriacos, Humble, TX, UNITED STATES
Kuo, Chi-I, Humble, TX, UNITED STATES
Glowczwski, David Michael, Baytown, TX, UNITED STATES
Ackerman, Steven Kent, Baytown, TX, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002123579	A1	20020905
	US 6608153	B2	20030819
APPLICATION INFO.:	US 2001-992758	A1	20011106 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-113216, filed on 10 Jul 1998, ABANDONED		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Univation Technologies, LLC, 5555 San Felipe, Suite 1950, Houston, TX, 77056		
NUMBER OF CLAIMS:	77		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2259		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a carboxylate metal salt. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier. More particularly, the polymerization catalyst comprises a bulky ligand metallocene-type catalyst system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 5 OF 25 USPATFULL on STN

ACCESSION NUMBER: 2002:214413 USPATFULL
TITLE: Polymerization process
INVENTOR(S): Muruganandam, Natarajan, Belle Mead, NJ, UNITED STATES
Yang, Xinmin, Franklin Park, NJ, UNITED STATES
Karol, Frederick J., Lakewood, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002115804	A1	20020822
	US 6538081	B2	20030325
APPLICATION INFO.:	US 2000-739178	A1	20001218 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Univation Technologies, LLC, Suite 1950, 5555 San Felipe, Houston, TX, 77056		
NUMBER OF CLAIMS:	16		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1139		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides a process for reducing the low molecular weight oligomer content of olefin polymers produced by metallocene catalysis wherein at least one organometallic compound is fed continuously into the reactor during polymerization. The organometallic compound has the formula $R_{sup.1}sub.nA$, wherein A is a Periodic Table Group 12 or 13 element. $R_{sup.1}$ is the same or different, substituted or unsubstituted, straight or branched chain alkylradical, cyclic hydrocarbyl radical, alkyl-cyclohydrocarbyl radical, aromatic radical or alkoxide radical and n is 2 or 3, to form a polymer product having a content of said compound of at least about 50 weight ppm.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 6 OF 25 USPATFULL on STN

ACCESSION NUMBER: 2002:192002 USPATFULL
 TITLE: Polymerization reactor operability using static charge modifier agents
 INVENTOR(S): Patrick, Brant, Seabrook, TX, UNITED STATES
 Muhle, Michael Elroy, Kingwood, TX, UNITED STATES
 Kuchta, Matt, Houston, TX, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002103072	A1	20020801
APPLICATION INFO.:	US 2000-728267	A1	20001201 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Jaimes Sher, Univation Technologies LLC, Suite 1950, 5555 San Felipe, Houston, TX, 77056		
NUMBER OF CLAIMS:	29		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	1 Drawing Page(s)		
LINE COUNT:	1635		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a static charge modifier. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier. More particularly, the polymerization catalyst comprises a bulky ligand metallocene-type catalyst system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 7 OF 25 USPATFULL on STN

ACCESSION NUMBER: 2002:48550 USPATFULL
 TITLE: Catalyst composition and methods for its preparation and use in a polymerization process
 INVENTOR(S): Agapiou, Agapios K., Humble, TX, UNITED STATES
 Kuo, Chi-I, Humble, TX, UNITED STATES
 Glowczwski, David M., Baytown, TX, UNITED STATES

Ackerman, Steve K., Baytown, TX, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002028742	A1	20020307
	US 6391819	B2	20020521
APPLICATION INFO.:	US 2001-934328	A1	20010823 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1999-397409, filed on 16 Sep 1999, GRANTED, Pat. No. US 6306984 Continuation-in-part of Ser. No. US 1998-113216, filed on 10 Jul 1998, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	UNIVATION TECHNOLOGIES LLC, 5555 SAN FELIPE SUITE 1950, HOUSTON, TX, 77056		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2224		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a carboxylate metal salt. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 8 OF 25 USPATFULL on STN

ACCESSION NUMBER: 2002:43651 USPATFULL

TITLE: Catalyst composition and methods for its preparation and use in a polymerization and use in a polymerization process

INVENTOR(S): Agapiou, Agapios K., Humble, TX, UNITED STATES
Kuo, Chi-I, Humble, TX, UNITED STATES
Glowczwski, David M., Baytown, TX, UNITED STATES
Ackerman, Steve K., Baytown, TX, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002026018	A1	20020228
	US 6472342	B2	20021029
APPLICATION INFO.:	US 2001-932912	A1	20010820 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1999-397410, filed on 16 Sep 1999, GRANTED, Pat. No. US 6300436 Continuation-in-part of Ser. No. US 1998-113216, filed on 10 Jul 1998, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Univation Technologies, LLC, Suite 1950, 5555 San Felipe, Houston, TX, 77056		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2249		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a carboxylate metal salt. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier. More particularly, the polymerization catalyst comprises a bulky ligand metallocene-type catalyst system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 9 OF 25 USPATFULL on STN

ACCESSION NUMBER: 2002:8448 USPATFULL
TITLE: CATALYST COMPOSITION AND METHODS FOR ITS PREPARATION
AND USE IN A POLYMERIZATION PROCESS
INVENTOR(S): AGAPIOU, AGAPIOS KYRIACOS, HUMBLE, TX, UNITED STATES
KUO, CHI-I, HUMBLE, TX, UNITED STATES
GLOWCZWSKI, DAVID MICHAEL, BAYTOWN, TX, UNITED STATES
ACKERMAN, STEVEN KENT, BAYTOWN, TX, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002004448	A1	20020110
APPLICATION INFO.:	US 1998-113216	A1	19980710 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	JAIME SHER, UNIVATION TECHNOLOGIES, 5555 SAN FELIPE, SUITE 1950, HOUSTON, TX, 77056		
NUMBER OF CLAIMS:	120		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2359		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a carboxylate metal salt. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier. More particularly, the polymerization catalyst comprises a bulky ligand metallocene-type catalyst system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 10 OF 25 USPATFULL on STN

ACCESSION NUMBER: 2001:185416 USPATFULL
TITLE: Catalyst composition and methods for its preparation
and use in a polymerization process
INVENTOR(S): Agapiou, Agapios K., Humble, TX, United States
Kuo, Chi-I, Humble, TX, United States
Glowczwski, David M., Baytown, TX, United States
Ackerman, Steve K., Baytown, TX, United States
PATENT ASSIGNEE(S): Univation Technologies, LLC, Houston, TX, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6306984	B1	20011023
APPLICATION INFO.:	US 1999-397409		19990916 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1998-113216, filed on 10 Jul 1998		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Wu, David W.		
ASSISTANT EXAMINER:	Lu, Caixia		
LEGAL REPRESENTATIVE:	Sher, Jaimes, Jones, Lisa Kimes		
NUMBER OF CLAIMS:	40		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2312		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a carboxylate metal salt. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 11 OF 25 USPATFULL on STN

ACCESSION NUMBER: 2001:173683 USPATFULL

TITLE: Catalyst composition and methods for its preparation and use in a polymerization process

INVENTOR(S): Agapiou, Agapios K., Humble, TX, United States
Kuo, Chi-I, Humble, TX, United States
Glowczwski, David M., Baytown, TX, United States
Ackerman, Steve K., Baytown, TX, United States

PATENT ASSIGNEE(S): Univation Technologies, LLC, Houston, TX, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6300436	B1	20011009
APPLICATION INFO.:	US 1999-397410		19990916 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1998-113216, filed on 10 Jul 1998		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Wu, David W.		
ASSISTANT EXAMINER:	Lu, Caixia		
LEGAL REPRESENTATIVE:	Sher, Jaimes, Jones, Lisa Kimes		
NUMBER OF CLAIMS:	38		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2327		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a carboxylate metal salt. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier. More particularly, the polymerization catalyst comprises a bulky ligand metallocene-type catalyst system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 12 OF 25 USPATFULL on STN

ACCESSION NUMBER: 2001:150623 USPATFULL

TITLE: Catalyst delivery method, a catalyst feeder and their use in a polymerization process

INVENTOR(S): Agapiou, Agapios K., Humble, TX, United States
Russell, Kathryn A., Seabrook, TX, United States

PATENT ASSIGNEE(S): Exxon Chemical Patents, Inc. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001020072	A1	20010906
APPLICATION INFO.:	US 2001-808615	A1	20010314 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-87024, filed on 29 May 1998, GRANTED, Pat. No. US 6245868		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Univation Technologies, LLC, Suite 1950, 5555 San Felipe, Houston, TX, 77056		
NUMBER OF CLAIMS:	80		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	1 Drawing Page(s)		
LINE COUNT:	1779		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to an improved catalyst delivery method for introducing a supported bulky ligand metallocene-type catalyst system to a reactor for polymerizing one or more olefin(s). In particular, the invention provides for a method of introducing a

supported metallocene-type catalyst system into a polymerization reactor by and in the presence of a carrier solution of an antistatic agent and a liquid diluent. Also, the invention is directed toward a catalyst feeder for use in a polymerization process.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 13 OF 25 USPATFULL on STN

ACCESSION NUMBER: 2001:128508 USPATFULL

TITLE: Catalyst delivery method, a catalyst feeder and their use in a polymerization process

INVENTOR(S): Agapiou, Agapios K., Humble, TX, United States
Russell, Kathryn A., Seabrook, TX, United States

PATENT ASSIGNEE(S): Exxon Chemical Patents, Inc. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001012496	A1	20010809
APPLICATION INFO.:	US 2001-808576	A1	20010314 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-87024, filed on 29 May 1998, GRANTED, Pat. No. US 6245868		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Jaimes Sher, Univation Technologies L.L.C., 5555 San Felipe, Suite 1950, Houston, TX, 77056-2723		
NUMBER OF CLAIMS:	80		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	1 Drawing Page(s)		
LINE COUNT:	1779		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to an improved catalyst delivery method for introducing a supported bulky ligand metallocene-type catalyst system to a reactor for polymerizing one or more olefin(s). In particular, the invention provides for a method of introducing a supported metallocene-type catalyst system into a polymerization reactor by and in the presence of a carrier solution of an antistatic agent and a liquid diluent. Also, the invention is directed toward a catalyst feeder for use in a polymerization process.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 14 OF 25 USPATFULL on STN

ACCESSION NUMBER: 2001:112455 USPATFULL

TITLE: Process and apparatus for **fluid bed polymerization**

INVENTOR(S): Joyce, William Helmer, Newton, CT, United States

PATENT ASSIGNEE(S): Union Carbide Chemicals & Plastics Technology Corporation, Danbury, CT, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6262190	B1	20010717
APPLICATION INFO.:	US 1999-247414		19990210 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Teskin, Fred		
NUMBER OF CLAIMS:	15		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	690		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB In gas phase **fluid bed polymerization** processes, operation can be achieved over wider ranges of fluidizing gas

velocities without incurring undue energy costs by adjusting the pressure drop through the grid below the bed to provide a ratio of pressure drop through the grid to pressure drop through the grid and bed above about 0.15:1. The range of fluidizing gas velocities can enhance the practicality of operating the processes over varying bed heights while reducing the risk of forming deposits of polymer. The processes of the invention are particularly useful to accommodate start-ups, catalyst transitions and shutdowns.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 15 OF 25 USPATFULL on STN

ACCESSION NUMBER: 2001:86569 USPATFULL
TITLE: Catalyst delivery method, a catalyst feeder and their use in a polymerization process
INVENTOR(S): Agapiou, Agapios K., Humble, TX, United States
Russell, Kathryn A., Seabrook, TX, United States
PATENT ASSIGNEE(S): Univation Technologies, Houston, TX, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6245868	B1	20010612
APPLICATION INFO.:	US 1998-87024		19980529 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Teskin, Fred		
LEGAL REPRESENTATIVE:	Sher, Jaimes, Jones, Lisa Kimes		
NUMBER OF CLAIMS:	56		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)		
LINE COUNT:	1644		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to an improved catalyst delivery method for introducing a supported bulky ligand metallocene-type catalyst system to a reactor for polymerizing one or more olefin(s). In particular, the invention provides for a method of introducing a supported metallocene-type catalyst system into a polymerization reactor by and in the presence of a carrier solution of an antistatic agent and a liquid diluent. Also, the invention is directed toward a catalyst feeder for use in a polymerization process.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 16 OF 25 USPATFULL on STN

ACCESSION NUMBER: 2001:14590 USPATFULL
TITLE: Catalyst composition and methods for its preparation and use in a polymerization process
INVENTOR(S): Wenzel, Timothy T., Charleston, WV, United States
PATENT ASSIGNEE(S): Univation Technologies, Houston, TX, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6180735	B1	20010130
APPLICATION INFO.:	US 1998-215432		19981217 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Wu, David W.		
ASSISTANT EXAMINER:	Choi, Ling-Siu		
LEGAL REPRESENTATIVE:	Sher, Jaimes, Jones, Lisa Kimes		
NUMBER OF CLAIMS:	11		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1753		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a carbonyl compound. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier. More particularly, the polymerization catalyst comprises a bulky ligand metallocene-type catalyst system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 17 OF 25 USPATFULL on STN

ACCESSION NUMBER: 1998:55025 USPATFULL

TITLE: Process for **transitioning** between incompatible **polymerization catalysts**

INVENTOR(S): Agapiou, Agapios Kyriacos, Humble, TX, United States
Muhle, Michael Elroy, Kingwood, TX, United States
Renola, Gary Thomas, Seabrook, TX, United States

PATENT ASSIGNEE(S): Exxon Chemical Patents Inc., Wilmington, DE, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5753786		19980519
APPLICATION INFO.:	US 1995-442590		19950517 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-218277, filed on 25 Mar 1994, now patented, Pat. No. US 5442019		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Weber, Thomas R.		
LEGAL REPRESENTATIVE:	Sher, Jaimes, Wolfs, Denise Y.		
NUMBER OF CLAIMS:	33		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	1141		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to a process for **transitioning** between incompatible **polymerization catalyst** systems. Particularly, the invention relates to a process for **transitioning** from an olefin **polymerization** reaction utilizing a traditional Ziegler-Natta catalyst system to a metallocene-olefin polymerization reaction.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 18 OF 25 USPATFULL on STN

ACCESSION NUMBER: 1998:48528 USPATFULL

TITLE: Process for **transitioning** between incompatible **polymerization catalysts**

INVENTOR(S): Agapiou, Agapios Kyriacos, Humble, TX, United States
Muhle, Michael Elroy, Kingwood, TX, United States
Renola, Gary Thomas, Seabrook, TX, United States

PATENT ASSIGNEE(S): Exxon Chemical Patents Inc., Houston, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5747612		19980505
APPLICATION INFO.:	US 1995-444592		19950519 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-218277, filed on 25 Mar 1994, now patented, Pat. No. US 5442019		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Weber, Thomas R.		

LEGAL REPRESENTATIVE: Sher, Jaimes, Wolfs, Denise Y.
NUMBER OF CLAIMS: 19
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 1092

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to a process for **transitioning** between incompatible **polymerization catalyst** systems. Particularly, the invention relates to a process for **transitioning** from an olefin **polymerization** reaction utilizing a traditional Ziegler-Natta catalyst system to a metallocene-olefin polymerization reaction.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 19 OF 25 USPATFULL on STN

ACCESSION NUMBER: 97:89042 USPATFULL

TITLE: Process for **transitioning** between incompatible **polymerization catalysts**

INVENTOR(S): Muhle, Michael Elroy, Kingwood, TX, United States
Agapiou, Agapios Kyriacos, Humble, TX, United States
Renola, Gary Thomas, Seabrook, TX, United States

PATENT ASSIGNEE(S): Exxon Chemical Patents Inc., Houston, TX, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5672666		19970930
APPLICATION INFO.:	US 1995-461799		19950605 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Weber, Thomas R.		
LEGAL REPRESENTATIVE:	Sher, Jaimes, Wolfs, Denise Y.		
NUMBER OF CLAIMS:	27		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1077		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to a process for **transitioning** between **polymerization catalyst** systems which are incompatible with each other. Particularly, the invention relates to a process for **transitioning** from an olefin **polymerization** reaction utilizing a traditional Ziegler-Natta catalyst system to a metallocene-olefin polymerization reaction.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 20 OF 25 USPATFULL on STN

ACCESSION NUMBER: 97:89041 USPATFULL

TITLE: Process for **transitioning** between incompatible **polymerization catalysts**

INVENTOR(S): Agapiou, Agapios Kyriacos, Humble, TX, United States
Muhle, Michael Elroy, Kingwood, TX, United States
Renola, Gary Thomas, Seabrook, TX, United States

PATENT ASSIGNEE(S): Exxon Chemical Patents, Inc., Wilmington, DE, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5672665		19970930
APPLICATION INFO.:	US 1995-443136		19950517 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-218277, filed on 25 Mar 1994, now patented, Pat. No. US 5442019		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		

PRIMARY EXAMINER: Schofer, Joseph L.
ASSISTANT EXAMINER: Weber, Tom
LEGAL REPRESENTATIVE: Sher, Jaimes
NUMBER OF CLAIMS: 6
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 1053

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to a process for **transitioning** between incompatible **polymerization catalyst** systems. Particularly, the invention relates to a process for **transitioning** from an olefin **polymerization** reaction utilizing a traditional Ziegler-Natta catalyst system to a metallocene-olefin polymerization reaction.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 21 OF 25 USPATFULL on STN

ACCESSION NUMBER: 95:73700 USPATFULL
TITLE: Process for **transitioning** between incompatible **polymerization catalysts**
INVENTOR(S): Agapiou, Agapios K., Humble, TX, United States
Muhle, Michael E., Kingwood, TX, United States
Renola, Gary T., Seabrook, TX, United States
PATENT ASSIGNEE(S): Exxon Chemical Company, Wilmington, DE, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5442019		19950815
APPLICATION INFO.:	US 1994-218277		19940325 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Schofer, Joseph L.		
ASSISTANT EXAMINER:	Weber, Tom		
LEGAL REPRESENTATIVE:	Sher, Jaimes		
NUMBER OF CLAIMS:	15		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	1084		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to a process for **transitioning** between incompatible **polymerization catalyst** systems. Particularly, the invention relates to a process for **transitioning** from an olefin **polymerization** reaction utilizing a traditional Ziegler-Natta catalyst system to a metallocene-olefin polymerization reaction.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 22 OF 25 USPAT2 on STN

ACCESSION NUMBER: 2002:228416 USPAT2
TITLE: Catalyst composition and methods for its preparation and use in a polymerization process
INVENTOR(S): Agapiou, Agapios Kyriacos, Humble, TX, United States
Kuo, Chi-I, Humble, TX, United States
Glowczwski, David Michael, Baytown, TX, United States
Ackerman, Steven Kent, Baytown, TX, United States
PATENT ASSIGNEE(S): Univation Technologies, LLC, Houston, TX, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6608153	B2	20030819

APPLICATION INFO.: US 2001-992758 20011106 (9)
RELATED APPLN. INFO.: Division of Ser. No. US 1998-113216, filed on 10 Jul 1998
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Lu, Caixia
LEGAL REPRESENTATIVE: Sher, Jaimes, Jones, Lisa Kimes, Faulkner, Kevin M.
NUMBER OF CLAIMS: 77
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT: 2227

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a carboxylate metal salt. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier. More particularly, the polymerization catalyst comprises a bulky ligand metallocene-type catalyst system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 23 OF 25 USPAT2 on STN

ACCESSION NUMBER: 2002:214413 USPAT2
TITLE: Polymerization process
INVENTOR(S): Muruganandam, Natarajan, 4 McIntire Dr., Belle Mead, NJ, United States 08502
Yang, Xinmin, 14 Marco Polo Ct., Franklin Park, NJ, United States 08823
Karol, Frederick J., 157 Skyline Dr., Lakewood, NJ, United States 08701

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6538081	B2	20030325
APPLICATION INFO.:	US 2000-739178		20001218 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Wu, David W.		
ASSISTANT EXAMINER:	Rabago, R.		
LEGAL REPRESENTATIVE:	McKinney, Osborn K.		
NUMBER OF CLAIMS:	12		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)		
LINE COUNT:	1100		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides a process for reducing the low molecular weight oligomer content of olefin polymers produced by metallocene catalysis wherein at least one organometallic compound is fed continuously into the reactor during polymerization. The organometallic compound has the formula $R_{sup.1}sub.nA$, wherein A is a Periodic Table Group 12 or 13 element. $R_{sup.1}$ is the same or different, substituted or unsubstituted, straight or branched chain alkylradical, cyclic hydrocarbyl radical, alkyl-cyclohydrocarbyl radical, aromatic radical or alkoxide radical and n is 2 or 3, to form a polymer product having a content of said compound of at least about 50 weight ppm.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 24 OF 25 USPAT2 on STN

ACCESSION NUMBER: 2002:48550 USPAT2
TITLE: Catalyst composition and methods for its preparation and use in a polymerization process
INVENTOR(S): Agapiou, Agapios K., Humble, TX, United States

PATENT ASSIGNEE(S): Kuo, Chi-I, Humble, TX, United States
Glowczwski, David M., Baytown, TX, United States
Ackerman, Steve K., Baytown, TX, United States
Univation Technologies, LLC, Houston, TX, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6391819	B2	20020521
APPLICATION INFO.:	US 2001-934328		20010823 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1999-397409, filed on 16 Sep 1999, now patented, Pat. No. US 6306984 Continuation-in-part of Ser. No. US 1998-113216, filed on 10 Jul 1998		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Wu, David W.		
ASSISTANT EXAMINER:	Lu, Caixia		
LEGAL REPRESENTATIVE:	Sher, Jaimes, Jones, Lisa Kimes		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)		
LINE COUNT:	2185		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a carboxylate metal salt. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 25 OF 25 USPAT2 on STN
ACCESSION NUMBER: 2002:43651 USPAT2
TITLE: Catalyst composition and methods for its preparation and use in a polymerization process
INVENTOR(S): Agapiou, Agapios K., Humble, TX, United States
Kuo, Chi-I, Humble, TX, United States
Glowczwski, David M., Baytown, TX, United States
Ackerman, Steve K., Baytown, TX, United States
PATENT ASSIGNEE(S): Univation Technologies, LLC, Houston, TX, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6472342	B2	20021029
APPLICATION INFO.:	US 2001-932912		20010820 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1999-397410, filed on 16 Sep 1999, now patented, Pat. No. US 6300436 Continuation-in-part of Ser. No. US 1998-113216, filed on 10 Jul 1998		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Wu, David W.		
ASSISTANT EXAMINER:	Lu, Caixia		
LEGAL REPRESENTATIVE:	Sher, Jaimes, Jones, Lisa Kimes		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)		
LINE COUNT:	2211		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a carboxylate metal salt. The invention is also directed to the use of the

catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier. More particularly, the polymerization catalyst comprises a bulky ligand metallocene-type catalyst system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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L3 ANSWER 2 OF 25 USPATFULL on STN

AB A process for **transitioning** between two **catalysts** is disclosed, comprising the steps of a) discontinuing the feed of the first catalyst into the polymerization reactor, and then b) introducing the second catalyst into the reactor, wherein one of the catalysts comprises a late transition metal catalyst and the other is a catalyst which is incompatible therewith. It is preferred that the late transition metal catalyst is a 2,6-diacetyl pyridine iron catalyst.

SUMM [0001] The present invention relates to a process for the polymerisation and copolymerisation of 1-olefins, and particularly to a process for **transitioning** between different **polymerization catalyst** systems.

SUMM [0005] EP-A-75 1965 discloses methods of **transitioning** between incompatible **catalysts**, involving the use of catalyst killers. It defines "incompatible" catalysts as those which satisfy one or more of the following criteria: 1) those catalysts that in each other's presence reduce the activity of at least one of the catalysts by greater than 50%; 2) those catalysts such that under the same reactive conditions one of the catalysts produces polymers having a molecular weight greater than two times higher than any other catalyst in the system; and 3) those catalysts that differ in comonomer incorporation or reactivity ratio under the same conditions by more than about 30%.

SUMM [0035] After introduction of the first catalyst has been discontinued, the polymerisation reactor may be partially or completely emptied. Completely emptying the reactor ensures that when the second catalyst is introduced, all the polymer subsequently produced is purely that derived from the second catalyst. However it is preferred at most only to partially empty the reactor, e.g. by reducing the bed height in the case of a gas phase **fluidised bed reactor**, as this is less disruptive of the polymerisation process. Although this results in the polymerisation with the second catalyst initially producing polymer which is mixed with polymer derived from the first catalyst, this is a relatively minor problem in the case of the present invention, because one of the catalysts is a late transition metal catalyst. Typically, between zero and half of the contents of the reactor by volume may be removed, though preferably only one third or less are removed. In the most preferred case, none of the contents of the reactor are removed prior to commencing the polymerisation with the second catalyst.

DETD [0093] Into a **fluidized bed reactor** heated at 30° C. and supplied with a fluidisation gas composed of nitrogen containing less than 2 vpm of water vapour and with a flow rate of 4.7 ml/s, were charged 15 kg of a granular chromium catalyst sold under the trade name EP30XA by Ineos Silicas (Warrington, England). The characteristics of this catalyst are: surface area=320 m²/g, pore volume=1.7 ml/g and chromium content=0.25% by weight. Next the reactor was heated from 60° C. to 150° C. at a rate of 100° C./h. The catalyst was then maintained at 150° C. for 30 minutes in the fluidised state. Next 12.5 moles of a mixture of isopropyl titanate and n-butyl titanate sold under the trade name "Tilcom BIP" by Titanium Intermediates Limited (Billingham, England) were introduced

into the reactor. The reactor was then maintained at 150° C. for 2 hours. The reactor was then heated from 150° C. to 300° C. at a rate of 100° C./h.

DETD [0095] A **fluidised bed reactor** 74 cm in diameter was used for the polymerisations. This contained a fluidized bed and was operated at 90° C. using Catalyst 3. The gas phase was composed of hydrogen, nitrogen, ethylene and hexane fluidised at 42 cm/sec. The partial pressures of the components of the gas mixture are given in Condition 1 of Table 2 below.

=> d his

(FILE 'HOME' ENTERED AT 14:04:58 ON 29 APR 2004)

FILE 'STNGUIDE' ENTERED AT 14:05:07 ON 29 APR 2004

FILE 'HOME' ENTERED AT 14:05:11 ON 29 APR 2004

SET ABBR ON PERM

SET PLURALS ON PERM

FILE 'USPATFULL, USPAT2, CAPLUS, JAPIO' ENTERED AT 14:05:36 ON 29 APR 2004

L1 17457 S FLUID? BED (1W) (REACTOR OR POLYMERIZ?)

L2 34 S TRANSITIONING (3A) (CATALYST OR CATALYTIC OR POLYMERIZATION)

L3 25 S L1 AND L2

=> s (transitioning or chang? or vary?) (3w) polymer?

L4 15497 (TRANSITIONING OR CHANG? OR VARY?) (3W) POLYMER?

=> s l1 and l4

L5 191 L1 AND L4

=> s transitioning (3w) polymer?

L6 44 TRANSITIONING (3W) POLYMER?

=> s l1 and l6

L7 22 L1 AND L6

=> d l7 1-22 ibib abs

L7 ANSWER 1 OF 22 USPATFULL on STN

ACCESSION NUMBER: 2003:228386 USPATFULL

TITLE: Catalyst composition and methods for its preparation and use in a polymerization process

INVENTOR(S): Wenzel, Timothy T., Charleston, WV, United States

PATENT ASSIGNEE(S): Univation Technologies, LLC, Houston, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6610803	B1	20030826
APPLICATION INFO.:	US 2000-711335		20001109 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-215432, filed on 17 Dec 1998, now patented, Pat. No. US 6180735		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Choi, Ling-Siu		
LEGAL REPRESENTATIVE:	Sher, Jaimes, Jones, Lisa Kimes, Faulkner, Kevin M.		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)		
LINE COUNT:	1789		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for

making the catalyst composition of a polymerization catalyst and a carbonyl compound. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier. More particularly, the polymerization catalyst comprises a bulky ligand metallocene-type catalyst system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 2 OF 22 USPATFULL on STN
ACCESSION NUMBER: 2003:166751 USPATFULL
TITLE: Polymerisation process
INVENTOR(S): Samson, John Norman Reid, Stirling, UNITED KINGDOM

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003114609	A1	20030619
APPLICATION INFO.:	US 2002-257161	A1	20021009 (10)
	WO 2001-GB1583		20010406

	NUMBER	DATE
PRIORITY INFORMATION:	GB 2000-8770	20000410
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP, 1300 I STREET, NW, WASHINGTON, DC, 20005	
NUMBER OF CLAIMS:	13	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Page(s)	
LINE COUNT:	842	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for transitioning between two catalysts is disclosed, comprising the steps of a) discontinuing the feed of the first catalyst into the polymerization reactor, and then b) introducing the second catalyst into the reactor, wherein one of the catalysts comprises a late transition metal catalyst and the other is a catalyst which is incompatible therewith. It is preferred that the late transition metal catalyst is a 2,6-diacetyl pyridine iron catalyst.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 3 OF 22 USPATFULL on STN
ACCESSION NUMBER: 2003:109063 USPATFULL
TITLE: Catalyst composition and methods for its preparation and use in a polymerization process
INVENTOR(S): Wenzel, Timothy T., Charleston, WV, United States
PATENT ASSIGNEE(S): Univation Technologies, LLC, Houston, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6551957	B1	20030422
APPLICATION INFO.:	US 2000-710829		20001109 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-215432, filed on 17 Dec 1998, now patented, Pat. No. US 6180735		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Wu, David W.		
ASSISTANT EXAMINER:	Choi, Ling-Siu		
LEGAL REPRESENTATIVE:	Sher, Jaimes, Faulkner, Kevin M.		
NUMBER OF CLAIMS:	9		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)		

LINE COUNT: 1746

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a carbonyl compound. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier. More particularly, the polymerization catalyst comprises a bulky ligand metallocene-type catalyst system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 4 OF 22 USPATFULL on STN

ACCESSION NUMBER: 2002:228416 USPATFULL

TITLE: Catalyst composition and methods for its preparation and use in a polymerization process

INVENTOR(S): Agapiou, Agapios Kyriacos, Humble, TX, UNITED STATES
Kuo, Chi-I, Humble, TX, UNITED STATES
Glowczwski, David Michael, Baytown, TX, UNITED STATES
Ackerman, Steven Kent, Baytown, TX, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002123579	A1	20020905
	US 6608153	B2	20030819
APPLICATION INFO.:	US 2001-992758	A1	20011106 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-113216, filed on 10 Jul 1998, ABANDONED		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Univation Technologies, LLC, 5555 San Felipe, Suite 1950, Houston, TX, 77056		
NUMBER OF CLAIMS:	77		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2259		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a carboxylate metal salt. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier. More particularly, the polymerization catalyst comprises a bulky ligand metallocene-type catalyst system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 5 OF 22 USPATFULL on STN

ACCESSION NUMBER: 2002:192002 USPATFULL

TITLE: Polymerization reactor operability using static charge modifier agents

INVENTOR(S): Patrick, Brant, Seabrook, TX, UNITED STATES
Muhle, Michael Elroy, Kingwood, TX, UNITED STATES
Kuchta, Matt, Houston, TX, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002103072	A1	20020801
APPLICATION INFO.:	US 2000-728267	A1	20001201 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Jaimes Sher, Univation Technologies LLC, Suite 1950, 5555 San Felipe, Houston, TX, 77056		
NUMBER OF CLAIMS:	29		
EXEMPLARY CLAIM:	1		

NUMBER OF DRAWINGS: 1 Drawing Page(s)
LINE COUNT: 1635
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a static charge modifier. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier. More particularly, the polymerization catalyst comprises a bulky ligand metallocene-type catalyst system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 6 OF 22 USPATFULL on STN

ACCESSION NUMBER: 2002:109144 USPATFULL

TITLE: Transition strategy for the production of sticky polymers

INVENTOR(S): Zilker, Jr., Daniel Paul, Charleston, WV, United States
Vacek, William David, Victoria, TX, United States
O'Rosky, Mark Edwin, Victoria, TX, United States
Hussein, Fathi David, Cross Lanes, WV, United States

PATENT ASSIGNEE(S): Union Carbide Chemicals & Plastics Technology Corporation, Danbury, CT, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6388027	B1	20020514
APPLICATION INFO.:	US 2000-694868		20001024 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Teskin, Fred		
NUMBER OF CLAIMS:	5		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)		
LINE COUNT:	610		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to a process for **transitioning** from **polymerizing** sticky **polymer** to polymerize another sticky polymer in gas phase fluidization bed production to decrease transition time, reduce off-grade material, and/or prevent operational difficulty.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 7 OF 22 USPATFULL on STN

ACCESSION NUMBER: 2002:48550 USPATFULL

TITLE: Catalyst composition and methods for its preparation and use in a polymerization process

INVENTOR(S): Agapiou, Agapios K., Humble, TX, UNITED STATES
Kuo, Chi-I, Humble, TX, UNITED STATES
Glowczwski, David M., Baytown, TX, UNITED STATES
Ackerman, Steve K., Baytown, TX, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002028742	A1	20020307
	US 6391819	B2	20020521
APPLICATION INFO.:	US 2001-934328	A1	20010823 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1999-397409, filed on 16 Sep 1999, GRANTED, Pat. No. US 6306984 Continuation-in-part of Ser. No. US 1998-113216, filed on 10 Jul 1998, PENDING		
DOCUMENT TYPE:	Utility		

FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: UNIVATION TECHNOLOGIES LLC, 5555 SAN FELIPE SUITE 1950,
HOUSTON, TX, 77056
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
LINE COUNT: 2224

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a carboxylate metal salt. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 8 OF 22 USPATFULL on STN

ACCESSION NUMBER: 2002:43651 USPATFULL
TITLE: Catalyst composition and methods for its preparation and use in a polymerization and use in a polymerization process
INVENTOR(S): Agapiou, Agapios K., Humble, TX, UNITED STATES
Kuo, Chi-I, Humble, TX, UNITED STATES
Glowczwski, David M., Baytown, TX, UNITED STATES
Ackerman, Steve K., Baytown, TX, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002026018	A1	20020228
	US 6472342	B2	20021029
APPLICATION INFO.:	US 2001-932912	A1	20010820 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1999-397410, filed on 16 Sep 1999, GRANTED, Pat. No. US 6300436 Continuation-in-part of Ser. No. US 1998-113216, filed on 10 Jul 1998, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Univation Technologies, LLC, Suite 1950, 5555 San Felipe, Houston, TX, 77056		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2249		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a carboxylate metal salt. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier. More particularly, the polymerization catalyst comprises a bulky ligand metallocene-type catalyst system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 9 OF 22 USPATFULL on STN

ACCESSION NUMBER: 2002:8448 USPATFULL
TITLE: CATALYST COMPOSITION AND METHODS FOR ITS PREPARATION AND USE IN A POLYMERIZATION PROCESS
INVENTOR(S): AGAPIOU, AGAPIOS KYRIACOS, HUMBLE, TX, UNITED STATES
KUO, CHI-I, HUMBLE, TX, UNITED STATES
GLOWCZWSKI, DAVID MICHAEL, BAYTOWN, TX, UNITED STATES
ACKERMAN, STEVEN KENT, BAYTOWN, TX, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002004448	A1	20020110

APPLICATION INFO.: US 1998-113216 A1 19980710 (9)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: JAIME SHER, UNIVATION TECHNOLOGIES, 5555 SAN FELIPE,
SUITE 1950, HOUSTON, TX, 77056
NUMBER OF CLAIMS: 120
EXEMPLARY CLAIM: 1
LINE COUNT: 2359

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a carboxylate metal salt. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier. More particularly, the polymerization catalyst comprises a bulky ligand metallocene-type catalyst system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 10 OF 22 USPATFULL on STN

ACCESSION NUMBER: 2001:185416 USPATFULL
TITLE: Catalyst composition and methods for its preparation and use in a polymerization process
INVENTOR(S): Agapiou, Agapios K., Humble, TX, United States
Kuo, Chi-I, Humble, TX, United States
Glowczwski, David M., Baytown, TX, United States
Ackerman, Steve K., Baytown, TX, United States
PATENT ASSIGNEE(S): Univation Technologies, LLC, Houston, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6306984	B1	20011023
APPLICATION INFO.:	US 1999-397409		19990916 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1998-113216, filed on 10 Jul 1998		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Wu, David W.		
ASSISTANT EXAMINER:	Lu, Caixia		
LEGAL REPRESENTATIVE:	Sher, Jaimes, Jones, Lisa Kimes		
NUMBER OF CLAIMS:	40		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2312		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a carboxylate metal salt. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 11 OF 22 USPATFULL on STN

ACCESSION NUMBER: 2001:173683 USPATFULL
TITLE: Catalyst composition and methods for its preparation and use in a polymerization process
INVENTOR(S): Agapiou, Agapios K., Humble, TX, United States
Kuo, Chi-I, Humble, TX, United States
Glowczwski, David M., Baytown, TX, United States
Ackerman, Steve K., Baytown, TX, United States
PATENT ASSIGNEE(S): Univation Technologies, LLC, Houston, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6300436	B1	20011009
APPLICATION INFO.:	US 1999-397410		19990916 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1998-113216, filed on 10 Jul 1998		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Wu, David W.		
ASSISTANT EXAMINER:	Lu, Caixia		
LEGAL REPRESENTATIVE:	Sher, Jaimes, Jones, Lisa Kimes		
NUMBER OF CLAIMS:	38		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2327		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a carboxylate metal salt. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier. More particularly, the polymerization catalyst comprises a bulky ligand metallocene-type catalyst system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 12 OF 22 USPATFULL on STN

ACCESSION NUMBER: 2001:14590 USPATFULL
 TITLE: Catalyst composition and methods for its preparation and use in a polymerization process
 INVENTOR(S): Wenzel, Timothy T., Charleston, WV, United States
 PATENT ASSIGNEE(S): Univation Technologies, Houston, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6180735	B1	20010130
APPLICATION INFO.:	US 1998-215432		19981217 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Wu, David W.		
ASSISTANT EXAMINER:	Choi, Ling-Siu		
LEGAL REPRESENTATIVE:	Sher, Jaimes, Jones, Lisa Kimes		
NUMBER OF CLAIMS:	11		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1753		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a carbonyl compound. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier. More particularly, the polymerization catalyst comprises a bulky ligand metallocene-type catalyst system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 13 OF 22 USPATFULL on STN

ACCESSION NUMBER: 1998:55025 USPATFULL
 TITLE: Process for **transitioning** between incompatible **polymerization** catalysts
 INVENTOR(S): Agapiou, Agapios Kyriacos, Humble, TX, United States
 Muhle, Michael Elroy, Kingwood, TX, United States
 Renola, Gary Thomas, Seabrook, TX, United States
 PATENT ASSIGNEE(S): Exxon Chemical Patents Inc., Wilmington, DE, United States

States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5753786		19980519
APPLICATION INFO.:	US 1995-442590		19950517 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-218277, filed on 25 Mar 1994, now patented, Pat. No. US 5442019		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Weber, Thomas R.		
LEGAL REPRESENTATIVE:	Sher, Jaimes, Wolfs, Denise Y.		
NUMBER OF CLAIMS:	33		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	1141		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to a process for **transitioning** between incompatible **polymerization** catalyst systems. Particularly, the invention relates to a process for **transitioning** from an olefin **polymerization** reaction utilizing a traditional Ziegler-Natta catalyst system to a metallocene-olefin polymerization reaction.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 14 OF 22 USPATFULL on STN

ACCESSION NUMBER: 1998:48528 USPATFULL
TITLE: Process for **transitioning** between incompatible **polymerization** catalysts
INVENTOR(S): Agapiou, Agapios Kyriacos, Humble, TX, United States
Muhle, Michael Elroy, Kingwood, TX, United States
Renola, Gary Thomas, Seabrook, TX, United States
PATENT ASSIGNEE(S): Exxon Chemical Patents Inc., Houston, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5747612		19980505
APPLICATION INFO.:	US 1995-444592		19950519 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-218277, filed on 25 Mar 1994, now patented, Pat. No. US 5442019		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Weber, Thomas R.		
LEGAL REPRESENTATIVE:	Sher, Jaimes, Wolfs, Denise Y.		
NUMBER OF CLAIMS:	19		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	1092		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to a process for **transitioning** between incompatible **polymerization** catalyst systems. Particularly, the invention relates to a process for **transitioning** from an olefin **polymerization** reaction utilizing a traditional Ziegler-Natta catalyst system to a metallocene-olefin polymerization reaction.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 15 OF 22 USPATFULL on STN

ACCESSION NUMBER: 97:89042 USPATFULL
TITLE: Process for **transitioning** between incompatible **polymerization** catalysts

INVENTOR(S): Muhle, Michael Elroy, Kingwood, TX, United States
Agapiou, Agapios Kyriacos, Humble, TX, United States
Renola, Gary Thomas, Seabrook, TX, United States
PATENT ASSIGNEE(S): Exxon Chemical Patents Inc., Houston, TX, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5672666		19970930
APPLICATION INFO.:	US 1995-461799		19950605 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Weber, Thomas R.		
LEGAL REPRESENTATIVE:	Sher, Jaimes, Wolfs, Denise Y.		
NUMBER OF CLAIMS:	27		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1077		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to a process for **transitioning** between **polymerization** catalyst systems which are incompatible with each other. Particularly, the invention relates to a process for **transitioning** from an olefin **polymerization** reaction utilizing a traditional Ziegler-Natta catalyst system to a metallocene-olefin polymerization reaction.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 16 OF 22 USPATFULL on STN

ACCESSION NUMBER: 97:89041 USPATFULL

TITLE: Process for **transitioning** between incompatible **polymerization** catalysts

INVENTOR(S): Agapiou, Agapios Kyriacos, Humble, TX, United States
Muhle, Michael Elroy, Kingwood, TX, United States
Renola, Gary Thomas, Seabrook, TX, United States
PATENT ASSIGNEE(S): Exxon Chemical Patents, Inc., Wilmington, DE, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5672665		19970930
APPLICATION INFO.:	US 1995-443136		19950517 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-218277, filed on 25 Mar 1994, now patented, Pat. No. US 5442019		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Schofer, Joseph L.		
ASSISTANT EXAMINER:	Weber, Tom		
LEGAL REPRESENTATIVE:	Sher, Jaimes		
NUMBER OF CLAIMS:	6		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	1053		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to a process for **transitioning** between incompatible **polymerization** catalyst systems. Particularly, the invention relates to a process for **transitioning** from an olefin **polymerization** reaction utilizing a traditional Ziegler-Natta catalyst system to a metallocene-olefin polymerization reaction.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 17 OF 22 USPATFULL on STN

ACCESSION NUMBER: 95:73700 USPATFULL

TITLE: Process for **transitioning** between incompatible **polymerization** catalysts
INVENTOR(S): Agapiou, Agapios K., Humble, TX, United States
Muhle, Michael E., Kingwood, TX, United States
Renola, Gary T., Seabrook, TX, United States
PATENT ASSIGNEE(S): Exxon Chemical Company, Wilmington, DE, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5442019		19950815
APPLICATION INFO.:	US 1994-218277		19940325 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Schofer, Joseph L.		
ASSISTANT EXAMINER:	Weber, Tom		
LEGAL REPRESENTATIVE:	Sher, Jaimes		
NUMBER OF CLAIMS:	15		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	1084		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to a process for **transitioning** between incompatible **polymerization** catalyst systems. Particularly, the invention relates to a process for **transitioning** from an olefin **polymerization** reaction utilizing a traditional Ziegler-Natta catalyst system to a metallocene-olefin polymerization reaction.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 18 OF 22 USPAT2 on STN
ACCESSION NUMBER: 2002:228416 USPAT2
TITLE: Catalyst composition and methods for its preparation and use in a polymerization process
INVENTOR(S): Agapiou, Agapios Kyriacos, Humble, TX, United States
Kuo, Chi-I, Humble, TX, United States
Glowczwski, David Michael, Baytown, TX, United States
Ackerman, Steven Kent, Baytown, TX, United States
PATENT ASSIGNEE(S): Univation Technologies, LLC, Houston, TX, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6608153	B2	20030819
APPLICATION INFO.:	US 2001-992758		20011106 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-113216, filed on 10 Jul 1998		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Lu, Caixia		
LEGAL REPRESENTATIVE:	Sher, Jaimes, Jones, Lisa Kimes, Faulkner, Kevin M.		
NUMBER OF CLAIMS:	77		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)		
LINE COUNT:	2227		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a carboxylate metal salt. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier. More particularly, the polymerization catalyst comprises a bulky ligand metallocene-type catalyst system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 19 OF 22 USPAT2 on STN

ACCESSION NUMBER: 2002:48550 USPAT2
TITLE: Catalyst composition and methods for its preparation
and use in a polymerization process
INVENTOR(S): Agapiou, Agapios K., Humble, TX, United States
Kuo, Chi-I, Humble, TX, United States
Glowczwski, David M., Baytown, TX, United States
Ackerman, Steve K., Baytown, TX, United States
PATENT ASSIGNEE(S): Univation Technologies, LLC, Houston, TX, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6391819	B2	20020521
APPLICATION INFO.:	US 2001-934328		20010823 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1999-397409, filed on 16 Sep 1999, now patented, Pat. No. US 6306984 Continuation-in-part of Ser. No. US 1998-113216, filed on 10 Jul 1998		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Wu, David W.		
ASSISTANT EXAMINER:	Lu, Caixia		
LEGAL REPRESENTATIVE:	Sher, Jaimes, Jones, Lisa Kimes		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)		
LINE COUNT:	2185		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a carboxylate metal salt. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 20 OF 22 USPAT2 on STN

ACCESSION NUMBER: 2002:43651 USPAT2
TITLE: Catalyst composition and methods for its preparation
and use in a polymerization process
INVENTOR(S): Agapiou, Agapios K., Humble, TX, United States
Kuo, Chi-I, Humble, TX, United States
Glowczwski, David M., Baytown, TX, United States
Ackerman, Steve K., Baytown, TX, United States
PATENT ASSIGNEE(S): Univation Technologies, LLC, Houston, TX, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6472342	B2	20021029
APPLICATION INFO.:	US 2001-932912		20010820 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1999-397410, filed on 16 Sep 1999, now patented, Pat. No. US 6300436 Continuation-in-part of Ser. No. US 1998-113216, filed on 10 Jul 1998		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Wu, David W.		
ASSISTANT EXAMINER:	Lu, Caixia		
LEGAL REPRESENTATIVE:	Sher, Jaimes, Jones, Lisa Kimes		

NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT: 2211

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a catalyst composition and a method for making the catalyst composition of a polymerization catalyst and a carboxylate metal salt. The invention is also directed to the use of the catalyst composition in the polymerization of olefin(s). In particular, the polymerization catalyst system is supported on a carrier. More particularly, the polymerization catalyst comprises a bulky ligand metallocene-type catalyst system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:367299 CAPLUS

DOCUMENT NUMBER: 136:370929

TITLE: Transition strategy for the production of sticky polymers or elastomers

INVENTOR(S): Zilker, Daniel Paul, Jr.; Vacek, William David;
O'rosky, Mark Edwin; Hussein, Fathi David

PATENT ASSIGNEE(S): Union Carbide Chemicals & Plastics Technology Corporation, USA

SOURCE: U.S., 7 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6388027	B1	20020514	US 2000-694868	20001024
PRIORITY APPLN. INFO.:			US 2000-694868	20001024

AB The invention relates to a process for **transitioning** from **polymerizing** sticky **polymer** to polymerize another sticky polymer in gas phase fluidization bed production to decrease transition time, reduce off-grade material, and/or prevent operational difficulty. The process comprises steps of: (a) terminating the feed of catalyst to a reactor, thereby allowing reaction rate to decrease; (b) terminating the polymerization using a reversible catalyst kill agent; (c) passivating the polymer with a gel inhibitor; (d) stopping polymer transfer from the reactor to the post-reaction purging and polishing equipment, thereby recovering aim-grade product from the post reaction equipment; (e) flow and pressure purging to remove kill agent; (f) feeding cocatalyst and optional promoters to establish concns. of these components; (g) establishing reaction conditions for the second sticky polymer; (h) re-initiating catalyst feed; and (i) re-initiating fluidization aid, cocatalyst, optional promoter and diene feeds.

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:356263 CAPLUS

DOCUMENT NUMBER: 134:368136

TITLE: Transition strategy for the production of sticky polymers or elastomers

INVENTOR(S): Zilker, Daniel Paul, Jr.; Vacek, William David;
O'rosky, Mark Edwin; Hussein, Fathi David

PATENT ASSIGNEE(S): Union Carbide Chemicals & Plastics Technology Corp., USA

SOURCE: Eur. Pat. Appl., 13 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1099715	A1	20010516	EP 2000-309885	20001107
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 2000005275	A	20010703	BR 2000-5275	20001108
JP 2001139613	A2	20010522	JP 2000-343573	20001110
CN 1296019	A	20010523	CN 2000-132371	20001110

PRIORITY APPLN. INFO.: US 1999-165045P P 19991112

AB The invention relates to a process for **transitioning** from **polymerizing** sticky **polymer** to polymerize another sticky polymer in gas phase fluidization bed production to decrease transition time, reduce off-grade material, and/or prevent operational difficulty. The process comprises steps of: (a) terminating the feed of catalyst to a reactor, thereby allowing reaction rate to decrease; (b) terminating the polymerization using a reversible catalyst kill agent; (c) passivating the polymer with a gel inhibitor; (d) stopping polymer transfer from the reactor to the post-reaction purging and polishing equipment, thereby recovering aim-grade product from the post reaction equipment; (e) flow and pressure purging to remove kill agent; (f) feeding cocatalyst and optional promoters to establish concns. of these components; (g) establishing reaction conditions for the second sticky polymer; (h) re-initiating catalyst feed; and (i) re-initiating fluidization aid, cocatalyst, optional promoter and diene feeds.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
146.09	146.57

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-1.39	-1.39

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